

Amendments to the Claims

Claim 1 (Canceled)

Claim 2 (Currently Amended) An optical disc drive for detecting address information from an optical disc including a plurality of data layers, and then starting reproduction, the optical disc drive comprising:

- ~~an optical disc having plural data layers;~~
 - a laser driver operable to ~~drive~~ ~~drive means for driving~~ a semiconductor laser;
 - a converging unit operable to ~~selectively converge~~ ~~means for converging~~ a light beam on each of the plurality of data layers of the optical disc, the light beam being light output from the semiconductor laser driven by ~~said the laser driver~~ ~~drive means~~;
 - a focus controller operable to ~~control~~ ~~control means for controlling~~ a focal position of a the convergence point of the light beam converged by ~~said converging unit~~ ~~the convergence means~~ on the optical disc;
 - a tracking controller operable to ~~position~~ ~~control means for positioning~~ the convergence point of the light beam converged by ~~said converging unit~~ ~~the convergence means~~ on a track of the optical disc;
 - a photodetector operable to ~~detect~~ ~~photodetection means for detecting~~ reflection of the ~~converged~~ light beam from the optical disc; and
 - a convergence detection unit operable to ~~detect~~ ~~means for detecting~~ convergence of the light beam emitted to one of the plurality of plural data layers of the optical disc before the optical disc drive detects the address information;
- wherein the optical disc drive controls ~~said the laser driver~~ ~~drive means~~ based on an output from ~~said the convergence detection unit~~ ~~means~~, and sets light beam emission power when reading from the optical disc separately for each of the plurality of plural data layers of the optical disc before the address information is detected.

Claim 3 (Canceled)

Claim 4 (**Currently Amended**) An optical disc drive for detecting address information from an optical disc including a plurality of data layers, and then starting recordation or reproduction, the optical disc drive comprising:

~~an optical disc having plural data layers;~~

a laser driver operable to drive ~~drive means for driving~~ a semiconductor laser;

a converging unit operable to selectively converge ~~means for converging~~ a light beam on each of the plurality of data layers of the optical disc, the light beam being light output from the semiconductor laser driven by said the laser driver ~~drive means~~;

a focus controller operable to control ~~control means for controlling~~ a focal position of a the convergence point of the light beam converged by said converging unit ~~the convergence means~~ on the optical disc;

a tracking controller operable to position ~~control means for positioning~~ the convergence point of the light beam converged by said converging unit ~~the convergence means~~ on a track of the optical disc;

a photodetector operable to detect ~~photodetection means for detecting~~ reflection of the converged light beam from the optical disc;

an equalization controller operable to control ~~control means for controlling~~ the equalization characteristics of an RF signal for output from the optical disk drive ~~photodetection means output~~; and

a convergence detection unit operable to detect ~~means for detecting~~ convergence of the light beam emitted to one of the plurality of plural data layers of the optical disc;

wherein the optical disc drive sets the equalization characteristics of the RF signal for output from the optical disk drive for each of the plurality of plural data layers based on an output from said the convergence detection unit ~~means~~.

Claims 5-7 (**Canceled**)

Claim 8 (**Withdrawn - Currently Amended**) An optical disc drive as described in claim 2, wherein said photodetector detects peak and valley prepits preformed to a plurality of locations in one revolution of continuous tracks on the optical disc, and the detection value output from said by the convergence detection unit ~~means~~ is a the result of said photodetector ~~the~~

~~photodetection means detecting the peak and valley prepits preformed to plural locations in one revolution of continuous tracks on the optical disc.~~

Claim 9 (**Currently Amended**) An optical disc drive as described in claim 2, wherein said photodetector detects guide grooves preformed on the optical disc, and the detection value output from said by the convergence detection unit means is a the result of said photodetector the photodetection means detecting the guide grooves preformed on the optical disc.

Claim 10 (**Withdrawn - Currently Amended**) An optical disc drive as described in claim 2, wherein said photodetector detects a recording signal written to a data area of the optical disc, and the detection value output from said by the convergence detection unit means is a the result of said photodetector the photodetection means detecting the a recording signal written to a data area of the optical disc.

Claims 11-21 (**Canceled**)

Claim 22 (**Currently Amended**) An optical disc drive for detecting address information from an optical disc including a plurality of data layers, and then starting reproduction, the optical disc drive comprising:

- ~~an optical disc having plural data layers;~~
- a laser driver operable to drive drive means for driving a semiconductor laser;
- a converging unit operable to selectively converge means for converging a light beam on each of the plurality of data layers of the optical disc, the light beam being light output from the semiconductor laser driven by said the laser driver drive means;
- a focus controller operable to control control means for controlling a focal position of a the convergence point of the light beam converged by said converging unit the convergence means on the optical disc;
- a tracking controller operable to position control means for positioning the convergence point of the light beam converged by said converging unit the convergence means on a track of the optical disc;

a photodetector operable to detect ~~photodetection means for detecting~~ reflection of the light beam from the optical disc; and

a convergence detection unit operable to detect ~~means for detecting~~ convergence of the light beam before the optical disc drive detects the address information;

wherein the optical disc drive controls said ~~the laser driver drive means~~ based on an output from said ~~the convergence detection unit means~~, and sets light beam emission power when recording to the optical disc separately for each of the plurality of ~~plural~~ data layers of the optical disc before the address information is detected.

Claim 23 (Canceled)

Claim 24 (Currently Amended) An optical disc drive as described in claim 22,

wherein the ~~characterized by recording and reproducing an optical disc comprising~~ comprises:

_____ a first substrate having a first data layer;

_____ a transparent reflection layer formed on the first data layer of the first substrate;

_____ a second substrate having a second data layer having to which is disposed a recordable film for recording and reproducing information; and

_____ an adhesive layer ~~for bonding the first substrate and the~~ second substrate with the first data layer and the second data layer facing each other; and

wherein configured the optical disc drive reads so that information recorded to the first data layer and the second data layer ~~is read~~ through the first substrate.

Claim 25 (Currently Amended) An optical disc drive as described in claim 22, wherein said photodetector detects a prewritten signal from a read-only area of the optical disc, and the detection value output from said by the convergence detection unit means is a the result of said photodetector the photodetection means detecting the a prewritten signal from a read-only area of the optical disc.

Claim 26 (**Withdrawn - Currently Amended**) An optical disc drive as described in claim 22, wherein said photodetector detects peak and valley prepits preformed to a plurality of locations in one revolution of continuous tracks of the optical disc, and the-detection-value output from said-by-the convergence detection unit-means is a-the result of said photodetector-the photodetection-means detecting the peak and valley prepits-preformed to plural locations in one revolution of continuous tracks on the optical disc.

Claim 27 (**Currently Amended**) An optical disc drive as described in claim 22, wherein said photodetector detects guide grooves preformed on the optical disc, and the-detection-value output from said-by-the convergence detection unit-means is a-the result of said photodetector-the photodetection-means detecting the guide grooves-preformed on the optical disc.

Claim 28 (**Withdrawn - Currently Amended**) An optical disc drive as described in claim 22, wherein said photodetector detects a recording signal written to a data area of the optical disc, and the-detection-value output from said-by-the convergence detection unit-means is a-the result of said photodetector-the photodetection-means detecting the-a recording signal-written to a data area of the optical disc.

Claims 29-34 (**Canceled**)

Claim 35 (**Withdrawn - Currently Amended**) An optical disc drive as described in claim 4, wherein said photodetector detects peak and valley prepits preformed to a plurality of locations in one revolution of continuous tracks of the optical disc, and the-detection-value output from said-by-the convergence detection unit-means is a-the result of said photodetector-the photodetection-means detecting the peak and valley prepits-preformed to plural locations in one revolution of continuous tracks on the optical disc.

Claims 36-39 (**Canceled**)

Claim 40 (**Withdrawn - Currently Amended**) An optical disc drive as described in claim 4, wherein said photodetector detects guide grooves preformed on the optical disc, and the detection-value output from said~~by the convergence detection unit~~ means is a~~the~~ result of said photodetector~~the photodetection means detecting the guide grooves preformed on the optical disc.~~

Claims 41-44 (**Canceled**)

Claim 45 (**Withdrawn - Currently Amended**) An optical disc drive as described in claim 4, wherein said photodetector detects a recording signal written to a data area of the optical disc, and the detection-value output from said~~by the convergence detection unit~~ means is a~~the~~ result of said photodetector~~the photodetection means detecting the a recording signal written to a data area of the optical disc.~~

Claims 46-69 (**Canceled**)